

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

BRATZ et al.

Serial No. 09/341,524

Filed: July 13, 1999

For: SOLID MIXTURE BASED ON SULFONYLUREAS AND ADJUVANTS

Art Unit: 1616

Examiner: Qazi

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

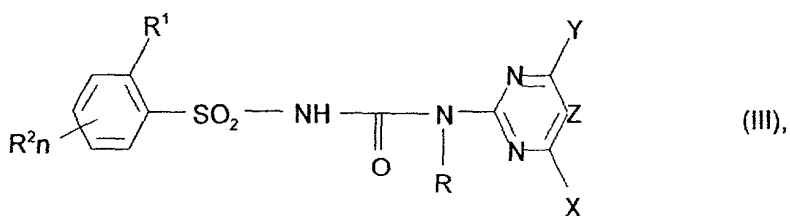
Prior to examination of the present continuation application of SN 09/341,524,
amend the application as follows.

CLEAN VERSION OF AMENDMENTS

IN THE SPECIFICATION

Amend the paragraph at page 7, line 36 to page 9, line 5 as follows:

Particular preference is given to sulfonylureas of the formula III (equivalent to the formula I where $J=J_1$) as known, for example, from EP-A 388 873, EP-A 559 814, EP-A 291 851 and EP-A 446 743:



where:

R^1 is C_1 - C_4 -alkyl, which may carry from one to five of the following groups: methoxy, ethoxy, SO_2CH_3 , cyano, chlorine, fluorine, SCH_3 , $S(O)CH_3$;

halogen;

a group ER^{19} , in which E is O, S or NR^{20} ;

$COOR^{12}$;

NO_2 ;

$S(O)_nR^{17}$, $SO_2NR^{15}R^{16}$, $CONR^{13}R^{14}$;

R^2 is hydrogen, methyl, halogen, methoxy, nitro, cyano, trifluoromethyl, trifluoromethoxy, difluoromethoxy or methylthio,

Y is F, CF_3 , CF_2Cl , CF_2H , OCF_3 , OCF_2Cl , C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy;

X is C₁-C₂-alkoxy, C₁-C₂-alkyl, C₁-C₂-alkylthio, C₁-C₂-alkylamino,

di-C₁-C₂-alkylamino, halogen, C₁-C₂-haloalkyl, C₁-C₂-haloalkoxy,

R is hydrogen or methyl;

R¹⁹ is C₁-C₄-alkyl, C₂-C₄-alkenyl, C₂-C₄-alkynyl or C₃-C₆-

cycloalkyl, each of which may carry from 1 to 5 halogen atoms. Furthermore, in the

case that E is O or NR²⁰, R¹⁹ is also methylsulfonyl, ethylsulfonyl,

trifluoromethylsulfonyl, allylsulfonyl, propargylsulfonyl or dimethylsulfamoyl;

R²⁰ is hydrogen, methyl or ethyl;

R¹² is a C₁-C₄-alkyl group which may carry up to three of the following radicals:

halogen, C₁-C₄-alkoxy, allyl or propargyl;

R¹⁷ is a C₁-C₄-alkyl group which may carry from one to three of the following

radicals: halogen, C₁-C₄-alkoxy, allyl or propargyl;

R¹⁵ is hydrogen, a C₁-C₂-alkoxy group or a C₁-C₄-alkyl group;

R¹⁶ is hydrogen or a C₁-C₄-alkyl group,

R¹³ is H, C₁-C₄-alkyl, or C₁-C₄-alkoxy;

R¹⁴ is C₁-C₄-alkyl;

n is 1 or 2,

Z is N, CH.

Amend the paragraph at page 9, lines 7 to 23 as follows:

Particularly preferred sulfonylureas of the formula III are those of the general formula I where J is J₁ and the remaining substituents have the following meanings:

R¹ is CO₂CH₃, CO₂C₂H₅, CO₂iC₃H₇, CF₃, CF₂H, OSO₂CH₃, OSO₂N(CH₃)₂, Cl, NO₂, SO₂N(CH₃)₂, SO₂CH₃ or N(CH₃)SO₂CH₃,

R² is hydrogen, Cl, F or C₁-C₂-alkyl,

Y is CF₂H, OCF₃, OCF₂Cl, CF₂Cl, CF₃ or F,

X is OCH₃, OC₂H₅, OCF₃, OCF₂Cl, CF₃, Cl, F, NH(CH₃), N(CH₃)₂ or C₁-C₂-alkyl,

R is hydrogen, and

Z is N or CH.

Amend the paragraph at page 9, lines 25 to 26 as follows:

Very particular preference is given to those compounds of the formula III which are listed in the table below, and where n is 1.

Delete the formula at page 9, lines 29 to 34.

Amend the paragraphs at page 23, lines 5 to 23 as follows:

Comparative example 1

A pre-mix comprising:

73.1 g of SU 1 (compound No. 47 from Table 1) (technical grade, 95.7%)

8 g of Tamol^R NH

17.9 g of Ufoxane^R 3A

was mixed and ground in a high-speed rotary mill.

7.1 g of pre-mix 1

5 g of Extrusil^R (Degussa)

77.9 g of ammonium sulfate

were mixed in a Moulinette household blender with 29 g of Lutensol^R ON 80 as a 50% strength aqueous solution. The resulting material was extruded using an extruder (KAR-75, Fitzpatrick Europe). The resulting moist granules were dried in a drying cabinet.

Amend the paragraph at page 23, lines 27 to 33 as follows:

A pre-mix comprising:

73.1 g of SU 1 (technical grade, 95.7%)

8 g of Tamol^R NH

17.9 g of Ufoxane^R 3A

was mixed and ground in a high-speed rotary mill.

Amend the paragraph at page 25, lines 3 to 9 as follows:

A pre-mix comprising:

73.1 g of SU 1 (technical grade, 95.7%)

8 g of Tamol[®] NH

17.9 g of Ufoxane[®] 3A

was mixed and ground in a high-speed rotary mill.

Amend the paragraph at page 26, lines 3 to 9 as follows:

A pre-mix comprising:

73.1 g of SU 1 (technical grade, 95.7%)

8 g of Tamol[®] NH

17.9 g of Ufoxane[®] 3A

was mixed and ground in a high-speed rotary mill.

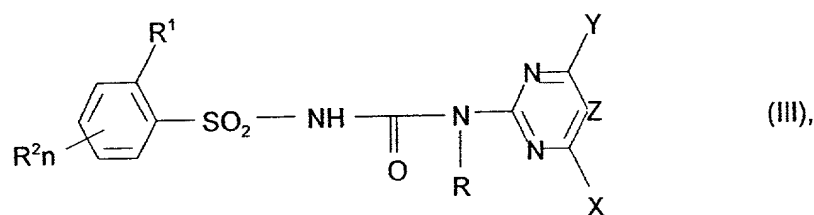
IN THE CLAIMS

Please cancel claims 1-9 and enter claims 10-18 as follows:

10. (new) A solid mixture comprising

- a) a sulfonylurea herbicide, and
- b) an alkylpolyglycoside.

11. (new) The solid mixture as claimed in claim 10, comprising a sulfonylurea of formula III



where:

R^1 is

C_1 - C_4 -alkyl, which may carry from one to five of the following groups: methoxy, ethoxy, SO_2CH_3 , cyano, chlorine, fluorine, SCH_3 , and $S(O)CH_3$,
halogen,

a group ER^{19} in which E is O, S or NR^{20} ,

$COOR^{12}$,

NO_2 ,

$S(O)_nR^{17}$, $SO_2NR^{15}R^{16}$ or $CONR^{13}R^{14}$;

R^2 is hydrogen, methyl, halogen, methoxy, nitro, cyano, trifluoromethyl, trifluoromethoxy, difluoromethoxy or methylthio;

Y is F, CF_3 , CF_2Cl , CF_2H , OCF_3 , OCF_2Cl , C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy;

X is C_1 - C_2 -alkoxy, C_1 - C_2 -alkyl, C_1 - C_2 -alkylthio, C_1 - C_2 -alkylamino, di- C_1 - C_2 -alkylamino, halogen, C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy;

R is hydrogen or methyl;

R^{19} is C_1 - C_4 -alkyl, C_2 - C_4 -alkenyl, C_2 - C_4 -alkynyl or C_3 - C_6 -

cycloalkyl, each of which may carry from 1 to 5 halogen atoms. Furthermore, in the

case that E is O or NR²⁰, R¹⁹ is also methylsulfonyl, ethylsulfonyl,

trifluoromethylsulfonyl, allylsulfonyl, propargylsulfonyl or dimethylsulfamoyl;

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R¹² is a C₁-C₄-alkyl group which may carry up to three of the following radicals:

halogen, C₁-C₄-alkoxy, allyl or propargyl;

R¹⁷ is a C₁-C₄-alkyl group which may carry from one to three of the following radicals: halogen, C₁-C₄-alkoxy, allyl or propargyl;

R¹⁵ is hydrogen, a C₁-C₂-alkoxy group or a C₁-C₄-alkyl group;

R¹⁶ is hydrogen or a C₁-C₄-alkyl group;

R¹³ is H, C₁-C₄-alkyl, or C₁-C₄-alkoxy;

R¹⁴ is C₁-C₄-alkyl;

n is 1 - 2; and

Z is N or CH.

12. (new) The solid mixture as claimed in claim 10, comprising a further herbicidally active compound c).

13. (new) The solid mixture as claimed in claim 10, comprising from 0.5 to 75% by weight of the component a).

14. (new) The solid mixture as claimed in claim 10, comprising from 1 to 50% by weight of the component b).

15. (new) The solid mixture as claimed in claim 10, comprising an alkylpolyglycoside

having a degree of polymerization of 1-3.

16. (new) The solid mixture as claimed in claim 15, comprising an alkylpolyglycoside having a degree of polymerization of 1-2.

17. (new) A method of controlling undesirable plant growth, which comprises treating the plants and/or the area to be kept free of the plants with a herbicidal amount of a solid mixture as claimed in claim 10.

18. (new) A process for preparing herbicide formulations, which comprises mixing a sulfonylurea with an alkylpolyglycoside.

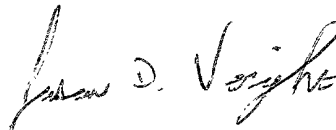
REMARKS

Claims 10-18 are pending.

Please charge any shortage in fees due in connection with the filing of this paper, including Extension of Time fees to Deposit Account No. 11-0345. Please credit any excess fees to such deposit account.

Respectfully submitted,

KEIL & WEINKAUF



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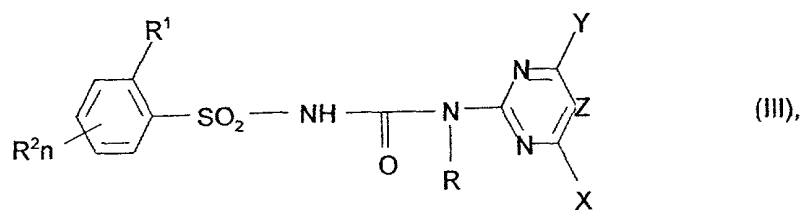
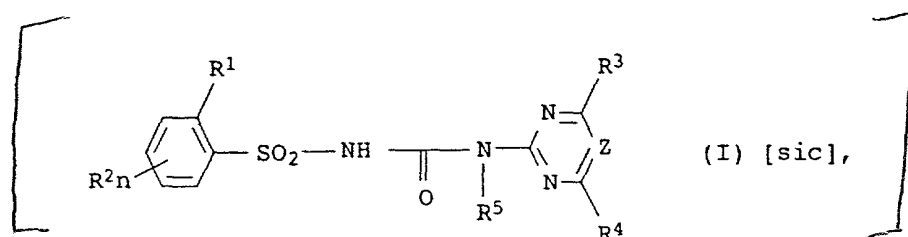
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

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R² is hydrogen, Cl, F or C₁-C₂-alkyl,

Y is CF₂H, OCF₃, OCF₂Cl, CF₂Cl, CF₃ or F,

X is OCH₃, OC₂H₅, OCF₃, OCF₂Cl; CF₃, Cl, F, NH(CH₃), N(CH₃)₂ or C₁-C₂-alkyl,

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